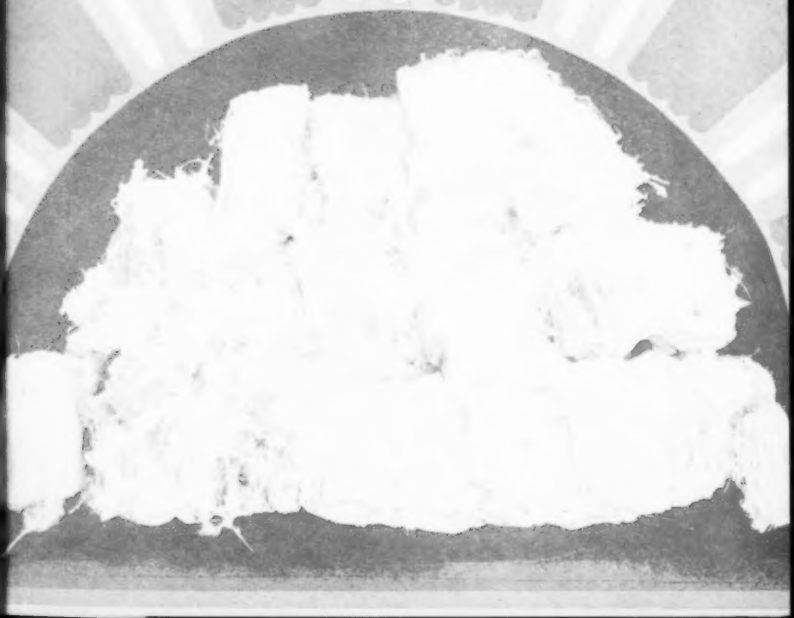
ASBESTOS

1701 Winter Street. Philadelphia. Pa.

A MONTHLY MARKET JOURNAL
Devoted to the Interests of the
Asbestos and Magnesia Industries

MARCH 1931



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... ASBESTOS ...

A MONTHLY MARKET JOURNAL
DEVOTED TO THE INTERESTS OF THE
ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER - - EDITOR

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FREE-WHEELING

And Its Effect on the Brake Lining Industry

When a radical change is made in some major automotive appliance, naturally the first question that comes to the minds of those in the brake lining industry is "Will it have any effect, good or bad, on the use of brake lining?"

The four wheel brake was an innovation which reacted very favorably on the brake lining industry; the internal expanding brake brought with it a demand for molded lining, with all its attendant ills, to the brake lining manufacturer.

We are not done discussing molded brake lining (brought about mainly by the adoption of the internal expanding type of brake) when the free-wheeling principle must needs engage our attention.

In the last several weeks we have heard much discussion of the free-wheeling principle and its effect on brakes and brake lining.

One automobile man (and he is not in any way connected with the brake lining industry) assured us that a car with free-wheeling would use forty times as much brake lining as one of the conventional type as the brakes would be applied at least 40 times as often.

Another gentleman of our acquaintance stated that undoubtedly cars having free-wheeling would be forced to use a larger brake, and therefore, wider and thicker brake lining and more of it.

These, however, were not much more than guesses, neither man having had the actual experience to back up his statements.

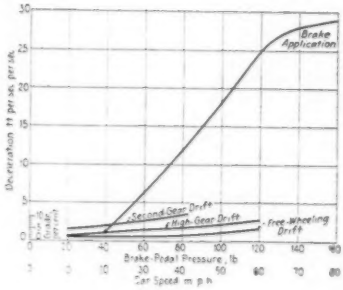
Has there been any worthwhile and authoritative investigation of the subject? Evidently there has, and it is condensed in an article which appears in the Society of Automotive Engineers Journal (Vol. xxviii, No. 1) written by Delmar G. Roos, Chief Engineer of the Studebaker Corporation, South Bend, Ind., and William S. James, Research Engineer in the same Corporation (which corpora-

tion, by the way, was one of the first to adopt the free-wheeling system).

The article is highly instructive, and anyone interested in the subject of free-wheeling generally would do well to obtain a copy of it from the S. A. E. The part of the article of most interest to the readers of this magazine, naturally, is that devoted to the discussion of the effect of free-wheeling on brakes. We will quote that portion in its entirety.

Some items in car construction naturally require alteration to meet the new conditions when its operating characteristics are altered by such a deep seated change as the introduction of free-wheeling. There is no question that the use of free-wheeling increases the severity of brake service but this increase is much less than is generally believed. An increase in brake capacity of 20 per cent has been found to be more than ample to take care of free-wheel conditions.

The relative braking effectiveness of the engine and the wheel brakes is shown in the accompanying graph in which rolling and wind resistance of a free-wheeling car, expressed as deceleration in feet per second per second, is shown together with similar curves including the engine friction in direct drive and second speed with closed throttle. The upper line shows the car deceleration for the full range of pedal pressures. The stopping rates are for all practical purposes independent of car speed. Inspection of these curves shows at once that the braking effect of the engine is very small when compared to that of the wheel brakes. These data give a fairly accurate idea of conditions for braking on hills where the speed is held down to a desired maximum.



Conditions are not the same, however, during a nor-

mal stop on a level road, and the difference becomes greater and greater at the higher decelerations. Under these conditions, the engine must slow down to idling speed more rapidly than the car is stopping if it is to be of assistance to the brakes. Furthermore, if the stopping rate is fast enough so that the tires mark the road or the wheels lock, the engine must be slowed down rapidly or stopped almost instantly by the brakes. In these cases the brakes must stop the engine as well as the car. The following table gives the average results from nearly 100 runs made to determine the influence of engine friction on the braking ability of a car.

Initial Car Speed, M. P. H.	Pedal Pressure Lb.	—Stopping Time— Free-Wheel Seconds	Conventional Seconds	Ratio
30	50	22.15	19.05	1.16
30	55	18.72		
30	100	5.53	5.36	1.03
30	105	5.14		
60	100	9.52	10.31	0.92
30	200	26.7a	24.0a	0.90

[a] Deceleration, feet per second per second

These data indicate that the engine is of assistance in stopping the car at low rates of deceleration, but that it is less and less effective at higher stopping rates and from higher speeds. An additional pedal pressure of 5 lb. slightly more than made up for the absence of engine braking effect.

Counting brake applications while driving under identical conditions gave the results recorded in the following table:

Nature of Road	Mileage	Average Speed M. P. H.	Brake Applications Free Wheel	Conventional	Ratio
Mountains	3,061	30.2	4,392	3,798	1.16
Level	600	28.9	305	305	1.00
Mixed	541	39.8	965	846	1.14
City	158.5	10.1	2,216	2,465	0.90
			Average		1.05

These data were secured in connection with tests on fuel consumption by driving two identical cars, one following the other, in the mountainous region of Western Pennsylvania, in the level country of Indiana, on mixed level and hilly roads of Indiana, Ohio and Pennsylvania

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Asphalt Paints for Roofing
Elastite Asphalt Expansion Joints,
Planking, Trunking, Pavement for Crossings,
Track Insulation and Water-Proofing
Asphalt and Tarred Felts

THE PHILIP CAREY COMPANY

***Lockland,* Cincinnati, Ohio**

and in city traffic. The individual characteristics of the cars and drivers were cancelled out, as far as possible, by alternating the free-wheeling operation between the two cars.

These data indicate that the number of brake applications in hilly country is about 16 per cent greater with free-wheel operation than with a conventional transmission. The difference is much less on level roads and in traffic.

The information given seems to be borne out by the actual tests, and therefore should be rather conclusive. Of course, before free-wheeling becomes universal, there may be any number of changes in opinion and in actual results on various cars.

For the present, however, these careful and impartial tests seem to indicate that the general adoption of free-wheeling (and we have no doubt that it will be generally adopted perhaps quite rapidly) will very slightly increase the use of brake lining.

An Asbestos Blanket for Motor Cars

The most recent use for blankets of asbestos cloth is as a fire extinguishing device for motor cars. The British Belting and Asbestos, Ltd., of London, has introduced such a blanket, put up in a special container, and so arranged that the blanket can be pulled out instantaneously. The complete outfit is said to sell for 12s. 6d. (about $3.00).

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Johns-Manville carries on the entire manufacturing process of asbestos. Mines in Arizona and Canada, thirteen factories located strategically across the continent and branch offices in all large cities cooperate in the supreme idea of service.

In a hundred ways Johns-Manville products contribute to the comfort of modern life and to the efficiency of industrial establishments. There are Johns-Manville Asbestos Shingles, automobile brake linings and Improved Asbestocel heater pipe and boiler insulations. Besides these, Johns-Manville makes scores of items ranging from asbestos curtains that protect theatre audiences to the packings, insulations and cements which make it possible to heat large buildings, and to operate great power plants.

Johns-Manville

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Branches In All Large Cities

Dyed Asbestos Yarns

Our readers have been more than kind in giving us information and sending us samples of dyed asbestos yarns, in answer to the query on page 26 of our February number.

Samples of yarns dyed in red, green, blue, brown and purple have been received and the colors are good, the yarn strong and apparently no ill effects attends the dyeing of asbestos yarn. In fact one manufacturer told us that the yarn appeared to be stronger after dyed than before.

So far, however, we have been unable to collect much information on the use of these dyed yarns.

The Allbestos Corporation of Philadelphia has given us the most information. They tell us that aniline dyes are used, vegetable dyes not being satisfactory. Very little trouble was encountered by them in having their yarns dyed and the colors have been found to be lasting.

Dyed yarns sold by the Allbestos Corporation are used for insulating wires, the idea being to use one thread of a fixed color to show each particular grade of wire when sold by distributors of the wire, to consumers. The color indicated the grade without other marking being necessary, and distributors were able to quote the proper price on the covered wire by merely looking at the color of the asbestos yarn used.

The Allbestos Corporation and other asbestos manufacturers have had their dyeing done by large dye firms in Philadelphia, but one textile manufacturer has his own dye equipment and handles the work at his own plant.

Some years ago certain asbestos manufacturers in the Untied States dyed asbestos yarns and made rugs of them for laying in front of fireplaces, but the colors for the most part were dull and unattractive and the venture could hardly be called successful. At least one of these rugs is still in existence.

We are also informed that asbestos yarns were dyed in Europe twenty years ago, but so far the purposes for which they were used have not been divulged.

Further information on this subject would be of interest.

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Crudes and Fibres of all Grades

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AMBLER U. S. A. PENNA.

C. W. Poe Co. Moves into New Building

The C. W. Poe Company of Cleveland, Ohio, has recently taken over the entire building located at 7600 Carnegie Avenue, containing 9500 square feet of floor space, where they will maintain their warehouse stores as well as their offices. Their previous address was 527 Terminal Tower Building.

The Insulation & Acoustics, Inc. (see left of photograph) is a subsidiary of C. W. Poe Company, operated under the direction of C. C. Straw, one of the pioneers

in the pneumatic installing of house insulation. The C. W. Poe Company deals chiefly with industrial insulation and the home field covered by the affiliated company presents an entirely new and different phase of the business.

During 1930 the C. W. Poe Company tripled its Capital Stock, rather unusual in a year so fraught with business worry as was the year just past.

Better service to its many customers is assured by these modern headquarters.

Did you ever notice that in a town where you can park as long as you want to, there is no good reason why you should?

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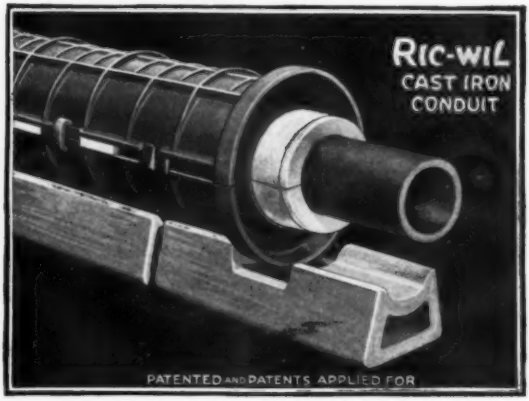

The Ric-wiL Loc-liP Side Joint makes a water-tight seal.

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—when the steam lines run under railroads, heavy traffic highways, etc., they must have extra protection. And Ric-wiL Cast Iron Conduit gives this extra protection—without special field construction. Cast Iron Ric-wiL has all the exclusive features of Tile Ric-wiL and is interchangeable with the Tile.

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RIC-WIL

CONDUIT SYSTEMS FOR UNDERGROUND STEAM PIPES

New Products

(Or Variations of Old Ones)

Samples of the articles described may be obtained by addressing the manufacturers thereof.

Careystone Weatheraged Shingles.

In producing their latest innovation in the Asbestos Cement Shingle line, the Philip Carey Company (Lockland, Cincinnati, O.) have caught Old World Charm, and combined it with the same durability, and fireproofing qualities possessed by all asbestos cement products.

The texture of the Weatheraged Shingles is something new in the asbestos cement shingle line—only by actual examination can a true idea of their rough surface be obtained. The patterns of this rough surface are so infinite in variety that two shingles of identical pattern cannot be found in a million squares.

The appearance of age with all the strength and durability of the newest, most modern manufacturing knowledge—that's the secret.

The colors, built solidly thru the body of the shingle, are soft and shadowy — Windsor Gray, Bristol Green, Georgian Red, Weathered Brown and Tudor Black. Used together with the butts staggered, the appearance is that in texture and tint, of the weathered beauty and charm of ancient castle roofs.

The miniature box of samples supplied by the manufacturers upon request, is quite complete and gives data as to sizes, prices and methods of laying.

Norristown's Fyr-Bord.

A comparatively new product in the asbestos field, is Norbestos Fyr-Bord.

As the name implies, Fyr-Bord was developed to meet conditions requiring a board that would withstand high temperatures. It is not to be confused with the various wallboards—asbestos or otherwise—nor is it competitive with asbestos lumber as it was not designed for exterior use.

In tests conducted by the manufacturer this material has successfully withstood for more than one hour, tem-

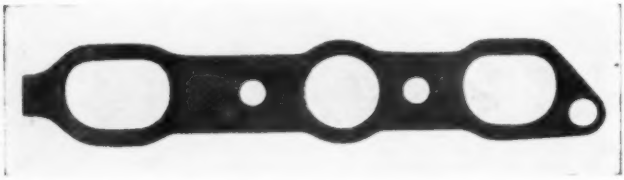
peratures ranging from 1800 to 2000 without the slightest trace of disintegration.

Fyr-Bord is gray in color and is manufactured with one rough surface for plastering, the opposite side being finished smooth for painting. It may be procured in standard size sheets 4 ft. x 7 ft. 6 in. and from 1/8 in. to 1/2 in. in thickness.

The manufacturer, the Norristown Magnesia & Asbestos Company of Norristown, Pa., recommends this board for use where complete fire protection is desired and where extremely high temperatures are to be encountered.

The Steelbestos Gasket.

A new departure in gasket design and manufacture is being announced by the Detroit Gasket & Mfg. Company of Detroit, Mich. This is known as the Steelbestos Gasket, which, as the name implies, is composed of asbestos reinforced with steel. High heat and pressure resistance and the ability to adapt itself to surface variation under compression are some of the outstanding claims for this new gasket.



The backbone of the Steelbestos Gasket is a steel sheet which is stamped by a process producing protruding tongues and cup-shaped depressions on both sides. Tongues and cups are closely spaced and staggered. Two sheets of high heat resistant asbestos (one on each side of the steel sheet) which have been rendered impervious to gasoline, oil and water (including salt water) are forced down over the tongues and into the depressions under terrific pressure. During the compressing operation the tongues are partially clenched over so as to anchor firmly the asbestos to the steel sheet.

ASBESTOS

ASBESTOS CORPORATION LIMITED

PRODUCERS OF

RAW ASBESTOS

CRUDES, FIBRES AND SHORTS

THETFORD MINES

QUEBEC CANADA

The final shape of the gasket is then cut out.

It will be readily understood that this design and method of manufacture materially simplifies the making of dies for producing gaskets, thereby greatly shortening the time between receipt of blue prints and delivery of finished product.

As is well known, there is a tendency for gaskets to burn, break or tear at some points, particularly when subjected to high temperatures and pressures at the same time. The Steelbestos Gasket, by means of its unique construction, provides a series of barriers which resist any tendency to tear, burn or spread.

The great strength of the steel reinforcing, with its unusual conformations, is claimed to be a big step forward in building service into a gasket.

The New Eternit Tapered Shingle.

A new Asbestos Cement Shingle has recently been designed and placed on the market by Eternit, Sales Division of the Ruberoid Company, 95 Madison Avenue, New York City.

This shingle is made in the American Method only, is 8 x 16 in. in size, and is tapered so that one end is 1/8 in. thick and the other, or exposed end, 1/4 in. It comes in colonial gray, quarry blue, tile red and jade green, the list price running from $12.00 to $13.35 per square, according to color. The mechanically exact taper assures perfect laying.

The four soft colors blend beautifully, and the heavy butts produce deep shadows, an effect so valued by the architectural fraternity.

The durability of the tapered shingle coincides, of course, with that of other Asbestos Cement Products; in fact strength, durability, absolute fire protection and architectural charm, are all combined in this new Eternit shingle.

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South African Blue Crude
South African Yellow Crude

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8 West 40th Street : New York City

Works: MILLINGTON, N. J.

The Luther B. McMillan Fellowship

Dr. Ralph B. Kennard, formerly head of the Physics Department of Robert College, Istambul, has been appointed a research associate of the Bureau of Standards, Washington, D. C., for research work in accordance with the provisions of the Luther B. McMillan Fellowship.

The privilege of establishing and maintaining this fellowship as a memorial to the late Luther B. McMillan was accorded the Johns-Manville Corporation by the Director of the Bureau of Standards shortly after the untimely death, in August 1929, of Mr. McMillan, Consulting Engineer for the company and a pioneer in research in heat transfer problems.

Dr. Kennard

The associate research work to be conducted by Dr. Kennard will cover fundamental problems involved in the transfer of heat between solids and fluids.

Dr. Kennard, before joining the staff of Robert College, was connected with the University of Chicago, where he received the doctor's degree in physics. Previous to this he was head of the Physics Department of Shanghai College, Shanghai, China, and while in that country served also as Chairman of the Board on the teaching of Physics for the East China Mission Colleges and Middle Schools.

His special field of study has been in Thermodynamics, Kinetic Theory, and Electricity and Magnetism. His publications have dealt with Kinetic Theory phenomena in high vacua.

While the research work of Dr. Kennard will be confined to the field of pure science, it is hoped that it will lay the foundation for many important practical applications. Altho this type of heat transfer is one of the most common in industry and in every day experience, its fundamental nature is still but imperfectly understood.

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Because of the recognized need by scientists and engineers for such research, the establishment of a research associate in the Bureau of Standards for carrying it on had been advocated by Mr. McMillan for some time and a practical program had already been worked out by him in cooperation with the Director of the Bureau of Standards.

It is felt that this fellowship will be a lasting tribute to the memory of Mr. McMillan and a practical means for continuing and expanding the research work which he had so ably carried on, also for additional research of a more extensive character, such as he had in contemplation for years, but which, because of the pressure of his many other activities, he was unable to undertake personally on a sufficiently comprehensive scale.

China's New Import Duties

Under the new Customs Import Tariff of the Republic of China, duties are now imposed on various classes of asbestos goods.

Specific rates are expressed in gold units of a fixed value of 19.7265 pence sterling. A picul (100 catties) is equivalent to 133-1/3 lb. avoirdupois. The duties are as follows:

	Gold Units
Asbestos boiler composition (picul)	0.64
Asbestos fibre and asbestos packing, metallic (picul)	8.20
Asbestos millboard (picul)	1.70
Asbestos sheets and packing (picul)	10.00
Asbestos yarn (picul)	8.40
Asbestos products, n. o. p. f.	10% ad val.

We are indebted to the India Rubber Journal for the above information.

The third international conference on bituminous coal will be held at the Carnegie Institute of Technology in November, 1931. An invitation will be extended to scientists of all countries to take part in the meeting. Seventeen hundred scientists from thirteen different countries attended the first conference which was held in 1926.

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Plain Cloth
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Asbestos Wick and Rope
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CONTRACTORS AND DISTRIBUTORS PAGE

IS THE BASEMENT TOO COOL FOR COMFORT?

Houses are so planned nowadays that there are no useless, draughty halls, no lost space of any kind, and one of the latest developments is the use of the basement, or part of the basement, as a recreation room, gymnasium or social center.

Of course the first requisites when using the basement for social purposes, are dryness, and, in wintertime, warmth.

For many years we have been taught to cover our heater pipes in order to save coal, and keep the basement **cool**, so that vegetables and canned fruit may be kept without spoiling.

Now we are going to use the basement for a recreation room and want it, if not hot, at least reasonably warm. Naturally, our first thought is to leave the pipes uncovered, thus providing sufficient heat, even if we don't save coal.

It would seem therefore that the effort to educate the public to use insulation and so keep their cellars cool, has acted as a boomerang.

But just a little thought will enable manufacturers and insulation contractors to prove to the house owner, or the man contemplating building a home, that he can still save coal by using covering and yet have his basement sufficiently warm.

When houses are built today, the radiation is planned accordingly. So many feet of radiation for each room, according to the size and location of the room. The heat from the many pipes passing thru the basement is more than sufficent to make it comfortable. Note that we say "more than sufficient." This is actually the case and can be proved easily.

The radiation necessary for the basement can be calculated on the same basis as that of the upstairs rooms. If the number of feet of radiation provided by the pipes in the basement is measured, it will be found that there are several times as many feet of radiation provided by the pipes as would be calculated to heat a room of the same size upstairs.

Aircell insulation is only 70% efficient. That is, it saves but 70% of the heat which would otherwise be dissipated into the basement by the pipes if left uncovered, leaving 30% of the heat still escaping. Thirty per cent of the number of feet of radiation afforded by the pipes in the basement will be found to be at least equal to, very probably more than, the number of feet of radiation actually figured as being sufficient to properly heat the basement.

Your own experience has probably proven that the basement is comfortable with insulated pipes, but the actual facts and figures will better convince the house owner, who is not desirous

VERMONT ASBESTOS

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of spending any more money than necessary. You can prove to him by actual figures that he will save money on his coal, yet heat his basement satisfactorily, and after that it doesn't take long to write his order.

(A second argument, along different lines, in answer to this same question, will be published next month under the title "Heat Where and When You Want It.")

Little Lessons in Selling

HOW PERSONAL FOLLOWING IS BUILT UP

By John T. Bartlett

Salesmen, you can find, with large customer following who do not belong to a single fraternal, civic, or religious organization. However, such affiliations on the average are beneficial; statistics recently published prove this.

It was found, for example, that of salesmen belonging to no organization, or only one, 57% turned out to be failures, and only 43% were successful.

The percentage of successes increased steadily with number of organizations belonged to up to five or over. Of salesmen belonging to two organizations, 58% were successful; three-four organizations, 62%; five or over 68%.

This doesn't prove, of course, that a salesman must be a "joiner" to be successful. Unless there are special conditions which direct otherwise, however, every salesman does owe it to himself in a reasonable way, to participate in the organization activities of his community.

It is a logical way to develop many acquaintanceships and friendships which, inevitably, mean followers at a later time.

Friendships made in organization activities result in many "courtesy" calls. How the salesman performs in relation to these is critically important. The friend is giving him a chance.

In the last analysis, service in behalf of customers, given in a fine spirit of helpfulness, proves the decisive thing. Ordinary service isn't enough. The salesman who continuously is anxious to help his customers all he can is one who holds them, and gets others.

"THE WORLD'S FINEST INSULATION"

In the form of

(1) BLUE ASBESTOS SECTIONAL COVERINGS (for Steam Pipes)

(2) BLUE ASBESTOS MATTRESSES
(for Locomotive or Marine Boilers)

(3) BLUE ASBESTOS BLOCKS
(for Bulkheads or Boilers)

Suitable for high temperatures up to 1000° F.

Combining the following features:-

1 Efficient insulation with structural strength
2 Resistance to vibration with no powderisation or friability
3 First cost is last

BLUE AND AMOSITE CRUDES

of all grades available for direct shipment from South Africa.

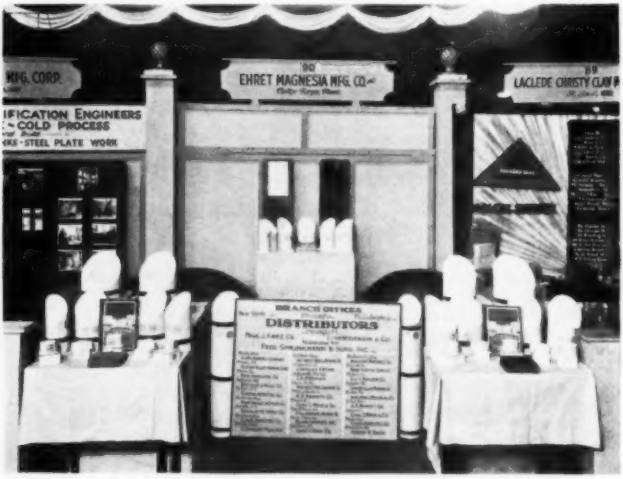
The Cape Asbestos Co Limited

Morley House 26-30 Holborn Viaduct London E.C.1.
Factory. Barking, Essex

Telegrams:— "Incorrupt," London. Telephone City 6937

Ehret Exhibits Magnesia at the Chicago Power Show

The Chicago Power Show, conducted by the Midwestern Engineering Exposition, Inc., was held in the Coliseum, February 10th to 14th inclusive.



The attractive exhibit of the Ehret Magnesia Mfg. Company of Valley Forge (and Chicago) is shown above.

Attendance at the Show is said to have been as good as, or better than, the average, and a great deal of interest was shown by visitors at the Ehret booth.

Automobile Production

Production of motor vehicles for January 1931, totalled 178,399, U. S. Production being 171,903 and Canadian 6,496.

This compares with 283,606 for January 1930, and 161,328 for December 1930.

Of the 178,399 produced in January 1931, 144,366 were passenger cars and 33,521 trucks, 512 taxicabs.

CYPRUS ASBESTOS

A true Chrysotile fibre of great tensile strength, exceptionally clean and well graded, suitable for the manufacture of—

Asbestos-cement pipes, sheets and shingles
Asbestos millboard
Moulded brake lining
Etc., etc.

APPLY FOR SAMPLES AND PRICES TO SOLE AGENTS—

CYPRUS TRADING CORPORATION, Ltd.
49, ST. JAMES'S STREET
LONDON, S. W. 1

BECKER & HAAG

RAW ASBESTOS

STOCKS OF ALL GRADES
HAMBURG
ROTTERDAM

BERLIN S W 11
BERNBURGERSTR 31

CABLE ADDRESS
CANADA - BERLIN

FACT AND FANCY

Windowless Factories.

"It is now possible and feasible to build a factory building without windows or skylights, entirely dependent upon scientific illumination and ventilation, with conditions ideally conducive to the physical comfort, mental serenity and good health of the persons employed."[1]

We wonder! So far as ideal illumination and ventilation are concerned, the windowless factory may be the ultimate in healthful surroundings, but what about the psychological effect of having no "outlook" on life but the four walls of the room in which workmen are employed.

Not to know whether the sun is shining or rain is falling; not to be able to get a glimpse of the outside world for the working day period! Will artificial lighting and scientific coloring and "manufactured atmosphere" be sufficiently potent to overcome man's longing for the wide open spaces?

[1]Description of the factory being constructed by the Simonds Saw & Steel Company at Fitchburg, Mass. See Executives Service Bulletin.

The U. S. Government Tests Brake Linings.

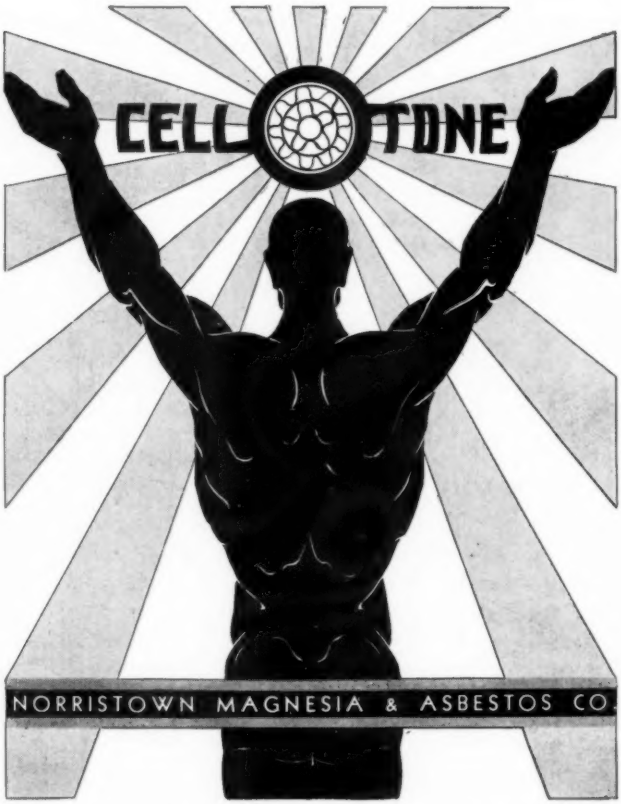
Effective February 3rd, 1931, samples of all brake linings sold to the various departments of the United States Government, must be tested for coefficient of friction and life.

Tests will be made on a machine designed by the United States Bureau of Standards, which represents the last word in testing equipment of its kind.

Some of these machines, built by the American Instrument Company 774-776 Girard St., N. W., Washington, D. C., are now in successful use in the manufacturing laboratories, and the machine is useful not only in determining the ability of a lining to meet government specification, but as a control device in the factory.

A full description of the machine, with photographs will be published in April "ASBESTOS."

ASBESTOS



Please send more information regarding Cell-O-Tone

NAME .....

ADDRESS .....

CITY & STATE .....

Aircell Board Now Comes in Cartons.

The package for Aircell Covering is so well liked by the trade that the Norristown Magnesia & Asbestos Company has gone a step farther and now can supply aircell boards and asbestos corrugated paper put up in cartons.

The aircell boards, made in standard size sheets of 36″ x 36″ are packed:

½″ thick, 24 boards to a carton, 216 sq. ft.
¾″ thick, 18 boards to a carton, 162 sq. ft.
1″ thick, 12 boards to a carton, 108 sq. ft.

The approximate weight of the packed carton is 102 pounds.

The asbestos corrugated paper is packed one roll, containing 250 sq. ft., to a carton, with an approximate shipping weight of 54 pounds.

Convenience in stocking, elimination of loss from handling in the warehouse or from the accumulation of dust and dirt all along the route, and the small amount of storage space, and of shelving required—cartons can be piled one on top of the other—make the aircell covering package very popular. The aircell board and corrugated paper packages are just as convenient and should find as much favor.

It's easier to keep track of your stock too, and in these days every wasted penny counts.

New Products.

Don't fail to read page 13, and the several succeeding pages devoted to New Products.

"ASBESTOS" would like to report all new products, or variations in old ones, before they are actually placed on the market.

Unfortunately, sometimes the article has been on the market several months before you think to tell us about it.

In reporting a new product, or a change in color, type or construction of an old one, see that the description is complete, send a sample of the material, and if possible supply a photograph or two which can be used to illustrate the article.

If you learn of a new product developed by a competitor tell us about it and we will obtain the necessary information direct from the manufacturer, without di-

Raw Asbestos Distributors
LTD.

RHODESIAN WHITE ASBESTOS
the products of the following MINES

"SHABANIE" "NIL DESPERANDUM"
"BIRTHDAY" "GATHS"
"KINGS" "CROFT"

TRANSVAAL WHITE ASBESTOS
SUPERFINE Quality the product of
THE AMIANTHUS MINE, Kaapsche Hoop.

SOUTH AFRICAN BLUE ASBESTOS
the product of
DOMINION BLUE ASBESTOS MINES (Prop'y)
KURUMAN.

Samples and Prices to be obtained from

RAW ASBESTOS DISTRIBUTORS
LTD.
20 ST. CLARE STREET, MINORIES;
LONDON, E. I., ENGLAND.

CABLES — Vulbeston, London
CODES — Bentleys. A. B. C. (5th) Western Union

OR FROM
W. D. CRUMPTON & CO.
8-10 BRIDGE STREET, NEW YORK, N. Y.
Sole U. S. A. Representatives

vulging the source of our information.

If readers will just remember to report to us innovations in asbestos products, we can make this New Products Department occupy several pages each month.

Canada's Production of Asbestos Manufactured Goods.

The Dominion Bureau of Statistics of Canada, has just published some very interesting figures on the production of manufactures within her domains, during 1929.

The figures given for Asbestos Products are as follows:

Asbestos Boiler & Pipe Covering, 3,593,131 feet, valued at $406,395.

Asbestos Brake Lining, 2,921,243 feet, valued at $555,739.

Asbestos Packings, 506,787 pounds, valued at $234,595.

Asbestos Products not elsewhere specified, including corrugated sheathing, lumber, millboard, paper, shingles, wallboard, gaskets, blackboards, tile, etc., quantity not given, evidently because materials are reported under different units; Value $1,070,312.

The above represents a total value of all Asbestos Products of $2,267,041.

ASBESTOS STOCK QUOTATIONS

		February 1931			
	Par	Div.	High	Low	Last
Asb. Corp. (Com.)	np	–	½	¼	¼
Asb. Corp. (Pfd.	100	7	1	1	1
Carey (Com.)	100	8	No Sales		
Carey (Pfd.)	100	6	115	115	115
Certainteed (Com.)	np	–	4⅞	3⅜	4⅜
Certainteed (Pfd.)	100	7	16	14½	16
Garlock Packing (Com.)	np	–	17	16½	16¾
Garlock Pkg. (6s Deb. 1939)	100	6	90½	90	90
Johns-Manville (Com.)	np	3	77⅞	59¼	72¾
Johns-Manville (Pfd.)	100	7	125	123¾	124
Raybestos-Manhattan Inc. (Com.)	np	–	28¼	20½	25¼
Ruberoid (Com.)	np	4	36½	34¼	36½
Thermoid (Com.)	np	–	9	6	6¾
Thermoid (6s 1934)	100	6	77¾	66¾	76
Thermoid (Pfd. convt.)	100	7	40	40	40

Nicolet Asbestos Mines Limited

DANVILLE, P. Q., CANADA

ASBESTOS FIBRES

of

SUPERIOR QUALITY

from the

DANVILLE DISTRICT

Suitable For the Manufacture of

SHINGLES, MILLBOARD, PAPER, CEMENTS

Address Inquiries to

ALEX. R. MARTIN, *President*

Nicolet Asbestos Mines Limited

INC.

25 BROAD STREET, NEW YORK

CABLE ADDRESS NICOBEST NEW YORK

Sole European Distributors

Compagnie Commerciale De Minerais
Et Matieres Premieres

74 QUAI DE JEMMAPES PARIS, FRANCE

MARKET CONDITIONS

General Business.

The Industrial Digest puts it thus: "Cheered by renewed activity in the stock market, following a winter of discontent, business generally has begun to show moderate signs of revival."

And further: "Present conditions seem to justify the expectation of a few months of business activity at or about present levels (with allowances, of course, for the expansion that is usually seen in the Spring) followed by a gradual upward trend. While some slight further recessions may be witnessed in the meantime, there is ground for the belief that the decline has nearly run its course and that the present rate of operations represents approximately the low point of the current cycle."

So much for general conditions.

Asbestos. Raw Material.

One of our correspondents comments thus on the raw material situation: There has been a curtailment of the production of asbestos by the Canadian Mines. This is a wise decision, for production during the past year in practically every grade of asbestos, has been much greater than the consumption. Sheds in Canada hold very large stocks, and as buyers are aware of this fact they realize that there is no necessity for ordering forward substantial quantities in excess of their immediate requirements and tying up capital.

What slight improvements have taken place in the manufacture of brake linings in the United States have only had the tendency of reducing stocks of spinning grades held by manufacturers, and consequently, there has been but little improvement in the sale of crudes and spinning fibres.

Comparatively poor business in the sale of raw asbestos in the United States has brought forth a determined effort by producers to obtain business in Europe.

The fall in price of asbestos is clearly reflected in the poor financial statements of the Canadian Mines, and with

RUSSIAN ASBESTOS

for use in the Manufacture of

Moulded Brake Lining

Free of grit or talc—extremely strong

•

A grade of Russian Asbestos made especially for Moulded Brake Lining and very reasonable in price.

•

Write for Substantial Sample

ASBESTOS LIMITED INC.
8 West 40th Street · New York, N. Y.

AMTORG TRADING CORP.
261 Fifth Avenue · New York, N. Y.

the same cost of production this year as last, and with reduced income due to lower prices plus increased competition from Russia, the picture at present is not a very rosy one.

It is generally believed, however, that while there *may* be some further reduction in price on some grades of asbestos, the most drastic cuts in price have already taken place.

And another gives us the following comments:

The market situation seems to show a very slight improvement over last month. The general tone is somewhat improved and a more optimistic note is evident. The situation in Europe, however, is still obscure and it is difficult to predict the immediate trend.

Manufactured Asbestos Goods.

Textiles. In this field the future looks gloomy enough. With the mines in Canada producing material below cost and the Rhodesian people now closed down, it appears that the field is wide open for Russians to do what they please in the way of price cutting. It is evidently the judgment of the Canadian and African miners that the production of material at the present levels is so unsatisfactory that it is by far better to leave the material in the ground than to mine it at a loss. Asbestos manufacturers themselves have been quoting very low prices indeed on Textiles and no doubt some of these prices represent a loss to the firms quoting. Undoubtedly in the course of time this situation will be rectified, but it is becoming increasingly difficult to do business in this field.

Brake Lining. This shows the usual seasonal pickup and it is altogether possible that this spring will be better than last. There also seems to be a trifle more popularity for Woven Lining than heretofore and it becomes more and more apparent that a change from Molded to Woven Lining in the future is well within the realms of possibility.

Packings. Packings at the present time are about what they were last month and there seems to be little or no opportunity in this field.

Insulation. High Pressure. Volume of new orders in this field continues to shrink. Shipments also are much below normal for this season of the year. Two manufactur-

ers have told us they anticipate a fair volume of business for the year but do not look for the improvement much before July. Prices in this field remain steady, chiefly due to the fact that cost of production of these products is almost entirely labor and coal. Labor costs have not been lowered and every one knows that the cost of coal has for several years been consistently low. Therefore the producer of high temperature insulations has so far been unable to lower costs and unless and until costs are lowered, we cannot see ground for expecting much change in prices.

Low Pressure. The Aircell market was particularly dull during February—the worst ever seen. There was no business from any of the three divisions of distribution—industrials, supply houses, contractors. In March, however, improvement is noted. Supply House business is opening up. Contractors are closing quite a little business. Business in prospect is really surprising, contractors having never before done so much figuring as in the past two or three weeks.

Paper and Millboard. Business in this division of the Industry is quite flat, with so far no tendency to improve. As usual when no business is in prospect, the urge to cut prices becomes predominant and some manufacturers have yielded. Price cutting would seem to be rather a vain gesture when so little business is offering.

Asbestos Cement Products. There is little change in the Asbestos Cement Product market from last month. The shingle season has not yet opened up altho if the present nice weather continues it will not be long before increased activity will be noted in shingles.

There appears to be a fairly uniform demand for corrugated and flat sheets, and prices are rather low in all three divisions of the industry.

Note: The above comments are sent us by various men who are in close touch with conditions in their particular division of the industry. We would be glad to have the comments of other readers on their various markets.

CONTRACTS EXECUTED ANYWHERE
High and Low Pressure Insulation
Brine and Ammonia Cork Insulation
STONE INDUSTRIAL EQUIP. CO.
SPRINGFIELD : : MASS.

Africa (Rhodesia).

	December Tons (2000 lbs.)	1930 Value
Bulawayo District		
Nil Desperandum & Sphinx (African Asb. Mng. Co. Ltd.)	630.60	£14,712 .. .
Pangani (Filabusi Asb. Co. Ltd.) ...	43.88	877 12 .
Recompense 1 (J. S. Hancock)	10.77	134 13 .
Shabanie (Rho. & Gen. Asb. Corp. Ltd)	953.55	19,071 .. .
Wynne's (Rho. Asb. & Chrome Syn. Ltd.) adjustment Sept. 1927..		375 12 6
Gwelo District		
Silver Sheen (C. P. Devitt)	6.58	52 12 9
Victoria District		
King (Rho. & Gen. Asb. Corp. Ltd.)	419.32	8,386 10 .
Gath's (Rho. & Gen. Asb. Corp. Ltd.)	258.07	5,161 10 .
	2,322.77	£48,771 10 3
December 1929	*3,971.44*	*£80,877*

Summary for the Year—Rhodesia (Tons—2000 lbs.)

	1929	1930		1929	1930
January ..	3,573.09	4,775.14	July	3,585.22	1,572.33
February .	991.60	4,125.57	August ...	3,916.44	3,816.33
March	3,603.76	3,078.23	September .	3,673.90	3,974.14
April	3,581.73	2,515.78	October ...	4,653.65	3,377.88
May	3,632.40	2,761.78	November .	4,096.31	3,271.17
June	3,354.72	2,174.71	December .	3,971.44	2,322.77
				42,634.26	37,765.83

Africa (Union of South).

(Statistics published by Dept. of Mines & Industries of U. of S. A.)

	December 1929 Tons (2000 lbs.)	Value	December 1930 Tons (2000 lbs.)	Value
Transvaal				
Amosite	311.82	£ 3,789	55.90	£ 539
Chrysotile	1,441.50	16,392	1,080.00	16,891
Cape				
Blue	533.53	12,849	378.76	9,767
	2,286.85	£33,030	1,514.66	£27,197

ASBESTOS

Summary for the year by Varieties.

	Year 1929		Year 1930	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Transvaal				
Amosite	9,259.74	£ 98,241	3,281.22	£ 36,885
Chrysotile	17,724.04	247,817	10,617.75	160,381
Cape				
Blue	6,029.81	150,995	5,481.43	143,529
Natal				
Chrysotile	10.00	150	.....	...
	33,023.59	£497,203	19,380.40	£340,795

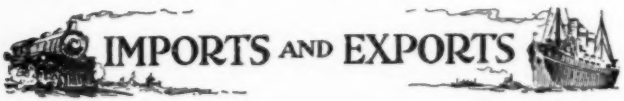
Summary for the year by Months (Tons of 2000 lbs.)

	1929	1930		1929	1930
January ..	2,967.93	1,592.04	July	2,557.17	2,093.36
February .	2,431.25	1,581.14	August ..	2,414.83	1,294.26
March	3,997.36	2,388.79	September	2,882.84	1,280.79
April	3,261.93	2,157.42	October ..	2,419.30	1,344.07
May	2,699.34	1,539.69	November	2,414.31	1,434.89
June	2,690.48	1,159.29	December	2,286.85	1,514.66
				33,023.59	19,380.40

Canada. Preliminary report on Mineral Production in the Province of Quebec, shows the following production of asbestos during 1930:

	Shipments & Sales		Av. Value	Stocks on hand Dec. 31, 1929	
	Tons	Value	per ton	Tons	Value
Crude No. 1	720	$ 345,750	$480.44	118	$ 56,644
Crude No. 2	1,440	411,179	285.44	1,761	502,631
Crude run of mine	161	10,914	67.79	192	13,016
Spinning Fibre ...	10,411	1,473,522	141.52	7,433	1,051,911
Shingle Fibre	19,909	1,406,385	70.64	14,124	997,721
Millboard and Paper	79,738	2,817,295	35.33	14,964	528,672
Fillers, floats and other short fibres	129,733	1,925,118	14.84	17,106	253,849
	242,112	8,390,163	26.70	55,698	3,404,444
By-Products (Sand and Gravel)	40,309	12,413	0.31		
	282,421	$8,402,576			

Quantity of rock mined during 1930: 4,901,206 tons
Tons — 2000 lbs.



Imports into U. S. A.

Unmanufactured Asbestos.

	January 1930 Tons (2240 lbs.)	Value	January 1931 Tons (2240 lbs.)	Value
Africa (Br. S.)	155	$ 29,226	133	$ 21,555
Africa (Port. E.)	669	248,506	9	1,995
Canada	14,142	421,220	11,283	349,450
Germany	...	120	23	2,548
Italy	1	836	1	707
Russia	...	...	414	23,225
United Kingdom	4	3,481	18	2,644
	14,971	$703,389	11,881	$402,124
Tabulation of Crude Only:				
Africa (Br. S.)	155	29,226	133	21,555
Africa (Port. E.)	669	248,506	9	1,995
Canada	136	46,675	22	8,470
Germany	...	120	23	2,548
Italy	1	836	1	707
Russia	...	...	414	23,225
United Kingdom	4	3,481	18	2,644
	965	$328,844	620	$61,144
Other Grades:				
Mill Fibre (Canada)	4,276	216,423	4,828	243,717
Lower Grades (Canada)	9,730	158,122	6,433	97,263
	14,006	$374,545	11,261	$340,980

Manufactured Asbestos:

	January 1930 Pounds	Value	January 1931 Pounds	Value
Yarn—				
United Kingdom	100	$ 95	1,039	$ 563
Fabrics, Woven—				
Canada	...	...	125	145
United Kingdom	5,526	3,563	...	...
Packing, Fabric—				
Canada	137	300	...	...
Germany	...	...	2,450	1,477
United Kingdom	...	...	2,174	1,854
Packing, not Fabric—				
Austria	226	357	270	108
Canada	75	38	...	...

RUSSIAN ASBESTOS

FOR SAMPLES AND PRICES OF ALL GRADES OF ASBESTOS PRODUCED IN THE SOVIET UNION. RANGING FROM FINEST CRUDES TO SHORTS. APPLY DIRECT TO SOLE SELLING AGENTS FOR EUROPE

MANGANEXPORT G. M. B. H.

UNTER DEN LINDEN 68 A

BERLIN, N. W. 7

OR TO AUTHORIZED SUB-AGENTS BELOW.

ITALY, SPAIN & SWITZERLAND	RIVALDI CO., INC 22 VIALE BIANCA MARIA MILANO, ITALY
AUSTRIA, CZECHO-SLOVAKIA, HUNGARY, JUGO-SLAVIA & ROUMANIA	MR. EMIL BRICHTA OTZELTGASSE 3, VIENNA III
GREAT BRITAIN	ARCOS LIMITED ASBESTOS DEPT. BUSH HOUSE, ALDWYCH, LONDON W. C. 2

ALL GRADES SOLD ON STANDARD GUARANTEED SAMPLES. REGULAR DELIVERIES CAN BE MAINTAINED OVER ANY PERIOD TO ALL USUAL PORTS.

	January 1930 Pounds	January 1930 Value	January 1931 Pounds	January 1931 Value
Germany	1,069	360	375	118
Hungary	...	...	220	145
United Kingdom	14,258	5,569	1,872	641
Shingles—				
Belgium	55,556	683	...	...
France	...	...	186,261	2,084
Lumber—				
Italy	2,260	68	...	...
Brake & Clutch Lining, Molded, Pressed or Formed—				
Germany	...	...	148	93
Paper & Millboard—				
Germany	1,005	46	...	...
Other Manufactures—				
Canada	820	31	2,425	235
Germany	...	...	3,158	290
Italy	341	20	...	...
United Kingdom	...	...	67,691	6,236
Grand Total	*81,373*	*$11,130*	*268,208*	*$13,989*

NOTE: During 1931 the imports of shingles, slate, wood and lumber will not be tabulated according to Ports of Entry, this because the quantities now being imported are very small. The information will be supplied to anyone, however, upon request.

Exports from U. S. A.

Exports of unmanufactured Asbestos during the month of December 1930[1] amounted to 206 tons, valued at $16,382; during the same month in 1929 4 tons, valued at $221 were exported.

During the year 1930, 688 tons were exported, valued at $95,318; while 633 tons, valued at $108,467 were exported during 1931.

Exports of Manufactured Asbestos Goods:

	December[1] 1929 Pounds	December[1] 1929 Value	December[1] 1930 Pounds	December[1] 1930 Value
Paper, Mlbd. & Rlbd.	218,555	$12,985	106,356	$11,375
Pipe Covg. & Cement	513,326	34,281	449,295	25,593
Textiles, Yarn & Pkg.	165,666	78,806	111,297	74,760
Brake & Clutch Lining	470,004[2]	103,702	441,439[2]	86,843
Magnesia & Mfrs. of	528,958	33,729	746,212	47,241
Asbestos Roofing	5,438[3]	33,905	5,638[3]	42,322
Other Manufactures	394,060	39,383	304,922	24,062
	Year 1929 Pounds	Year 1929 Value	Year 1930 Pounds	Year 1930 Value
Paper, Mlbd. & Rlbd.	1,699,578	$ 152,168	1,917,471	$ 153,232
Pipe Covg. & Cement.	6,889,985	409,477	6,666,348	426,573
Textiles, Yarn & Pkg.	1,979,363	1,031,578	1,784,168	949,116
Brake & Clutch Lining	7,426,622[2]	1,520,585	6,716,521[2]	1,472,068
Magnesia & Mfrs. of	6,259,317	391,628	6,845,593	454,958
Asbestos Roofing	92,214[3]	600,420	65,743[3]	393,027
Other Manufactures	4,891,508	534,743	4,777,154	445,077

[1] Exports one month behind Imports. [2] Lin. Ft. [3] Squares.

ASBESTOS

Exports of Raw Asbestos from Canada.

	January 1929 Tons (2000 lbs.)	Value	January 1930 Tons (2000 lbs.)	Value
United Kingdom	96	$ 11,405	...	...
United States	4,470	279,242	5,589	$265,842
Australia	56	5,550	...	...
Belgium	95	5,775	155	8,912
France	717	51,050	...	...
Germany	212	26,882	134	22,000
Italy	727	64,487	...	...
Japan	260	17,200	73	3,510
Mexico	...	...	25	1,750
Netherlands	25	1,750	...	...
	6,658	$463,341	5,976	$302,014
Sand and Waste—				
United Kingdom	90	2,125	...	...
United States	10,878	172,145	6,774	95,291
Argentina	30	450	...	...
Belgium	30	750	30	450
France	30	375	...	...
Germany	30	750	47	940
Japan	15	375	...	...
	11,103	$176,970	6,851	$96,681
Grand Total	*17,761*	*$640,311*	*12,827*	*$398,695*

Imports and Exports by England.

Imports of Raw Material.

	January 1930 Tons (2240 lbs.)	Value	January 1931 Tons (2240 lbs.)	Value
From Rhodesia	915	£ 36,914	1,069	£29,320
From Canada	165	3,217	122	1,374
From Other Countries	1,964	54,167	1,139	28,830
Total	3,044	£94,298	2,330	£59,524
Re-Shipments	247	8,774	159	5,572
Exports of Manufactured Asbestos Goods:				
To Netherlands	103	5,990	99	5,250
To France	62	8,147	117	6,240
To United States of America	3	1,340	1	712
To British India	536	10,225	894	15,918
To Australia	68	7,902	18	3,101
To Other Countries	2,338	80,318	1,228	57,528
	3,110	£113,922	2,357	£88,749

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for the manufacture of

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Filtration Packings
Asbestos Shingles and Lumber
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THE QUEBEC ASBESTOS CORPORATION

Office and Mines
EAST BROUGHTON, PROVINCE *of* QUEBEC
CANADA

NEWS OF THE INDUSTRY

Birthdays. Congratulations are extended to the following gentlemen on the occasion of their birthdays: G. C. Hall, Secretary, National Asbestos Mfg. Company, Jersey City, N. J., whose birthday occurs on March 17th; John F. Bolger, Vice President & General Manager, Allbestos Corporation, Germantown, Philadelphia, Pa., March 27th; J. O. Gillen, President, Gillen-Cole Co., Portland, Ore., March 31st; Glendon A. Richards, President, Richards Mfg. Co., Grand Rapids, Mich., April 1st; George Kanzler, President, Smith & Kanzler Co., Elizabeth, N. J., April 4th; J. Alfred Fisher, formerly Chairman of Bell's United Asbestos Co., Ltd., London, England, April 12th; P. H. Jamieson, Manager, Jamieson Asbestos Co., Montreal, P. Q., Canada, April 13th.

Asbestos Textile Company has recently moved its New York offices to 369 Lexington Avenue, at 41st Street, in the Mott Building. Their former address was 475 Fifth Avenue. The new headquarters are admirably planned, the floor space lending itself readily to the arrangement of private offices desired by the executives.

W. A. RuKeyser, who has spent several months in Russia, has returned to the States, landing in New York on Friday, February 13th. Mr. RuKeyser appears to be quite enthusiastic over his Russian experience. He expects to return about April 1st to continue the work as supervising and consulting engineer for Uralasbest.

Raybestos-Manhattan, Inc. The preliminary annual report of Raybestos-Manhattan, Inc., for the year ended December 31, 1930, shows net income of $1,156,770, equivalent to $1.71 per share on the 675,927 shares of no par value capital stock outstanding. This compares with net income of $3,206,293 or $4.74 a share earned in 1929 and with net income of $2,465,585, or $3.64 earned in 1928.

Net income for 1930 was arrived at after making all provisions for inventory adjustments and similar items amounting to $327.364 for depreciation of properties amounting to $550,334, Federal income taxes of $109,736 and crediting $300,000, no longer required, of the reserve set up in prior years for inventory adjustments. Earnings comparisons for 1929 and 1928 include the figures of predecessor companies.

Net sales of Raybestos-Manhattan, Inc., for 1930 total $16,683.243 compared with $23,047,511 in 1929 and $22,194,866 in 1928.

As of December 31, 1930 the company had current assets of more than $8,300,000 of which approximately $3,300,000 was cash and marketable securities. The Company had no bonds or bank

indebtedness, its only liabilities, aggregating $533,000 were current accounts payable and provision for taxes. The ratio of current assets to liabilities was 15.6 to 1 compared with 8.7 to 1 at the beginning of the year.

At the meeting held on February 18th, the Directors declared the usual quarterly dividend of 65c per share, payable March 16, 1931 to stockholders of record February 28, 1931.

Vermont Asbestos Corporation. Despite the four to six feet of snow at the mines of this Corporation at Eden, Vermont, work is going on steadily. At the present time an additional crusher and screening equipment is being installed. The roads are kept open by means of a Caterpillar Tractor owned by the Corporation.

Frederick E. Byrnes, Vice President of the Vermont Asbestos Corporation, is now located at Hyde Park, Vt., in direct charge of the company's properties there; Timothy E. Byrnes, President, is spending the winter in California.

Johns-Manville Corporation. F. W. Decker, formerly Sales Manager of the Power Products Department, Western Division, has been attached to the General Industrial Department, handling Pipe Line Protection, located at Chicago.

G. A. Barker, formerly Sales Manager of the Power Products Department, Pacific Division, has been promoted to the position of Sales Manager of the Power Products Department of the Western Division, succeeding F. W. Decker.

A. W. Knight, formerly Supervisor in the Power Products Department, of the Pacific Division, has been promoted to the position of Sales Manager of the Power Products Dept. Pacific Division, succeeding Mr. Barker.

Net profit of Johns-Manville Corporation for the year 1930, after charges, reserves and provision for taxes, was $3,268,123, equal, after preferred dividends, to $3.66 per share on the 750,000 shares of common stock outstanding. This compared with $6,591,916, or $8.08 per share on the common stock in 1929 and with $5,589,398, or $6.75 in 1928. Net sales for the year were $49,492,047, a decrease of 20 per cent from the $61,994,884 reported for 1929, but a gain of about 3 per cent over the figures for 1928. The balance sheet of the company shows current assets of $15,748,631 and current liabilities of $4,328,870, a ratio of over 3½ to 1.

The Ric-wiL Company, Cleveland, manufacturers of Ric-wiL Conduit Systems for underground steam pipes, announces the appointment of the following new agents: H. H. Wright, 615 City Bank Building, Kansas City, Mo.; J. M. O'Connor, 1100 E. Douglass St., Wichita, Kans.; B. R. Hawley, 724 Union State Bank Bldg., Omaha, Nebr.; Frank Loeffler Supply Co., 710 N. Hudson St., Oklahoma City, Okla.

Philip Carey Manufacturing Co., Lockland, Cincinnati, O., at its meeting held on February 28th, elected the following officers

for the year 1931: President, George D. Crabbs; First Vice president, R. B. Crabbs; Second Vice President, W. J. Moeller; Secretary and Treasurer, W. C. Ignatius; Assistant Treasurer, C. A. Blinn; Assistant Secretary, L. E. Whitaker; Assistant Comptroller, S. E. Breuleux. Directors are: John Anderson, of New York; J. P. Stagg, R. B. Crabbs, W. C. Wachs, N H. Crabbs, W. J. Moeller, Col. Wm. Cooper Proctor, Frank W. Cottle and G. D. Crabbs, all of Cincinnati.

The officers of the selling company, The Philip Carey Company, of New Jersey, elected for the year 1931 are: Chairman of the Board, George D. Crabbs; President, R. B. Crabbs; Vice President, W. L. Steffens; Vice President, C. A. Blinn; Secretary and Treasurer, W. C. Ignatius; Assistant Treasurer, Homer A. Gray; Assistant Secretary, L. E. Whitaker; Assistant Comptroller, S. E. Breuleux. The Directors are: R. B. Crabbs, W. L. Steffens, L. E. Whitaker, Geo. W. Mills, Jr., W. C. Ignatius, C. A. Blinn, Homer A. Gray, George D. Crabbs, all of Cincinnati, and John R. Turner, of Jersey City, N. J.

The Board of Directors has declared a dividend of 1½ per cent on the Preferred Stock of the Company, payable March 31st, 1931, to Stockholders of record March 20, 1931. They also declared a dividend of 2 per cent on the Common Stock of the Company payable March 14th, 1931 to Stockholders of record March 10th, 1931.

Russell Mfg. Company, of Middletown, Conn., in order to expand its manufacture and distribution of Rusco brake linings and other automotive products, has asked the Connecticut legislature to permit it to increase its capital stock to not more than $5,000,000 and to make some other minor changes in its charter, which was granted in 1834. The bill was referred to the Committee on Incorporations which reported favorably February 18th. The present capitalization is $2,000,000.

The cash position of the company has been materially improved during the past year. Inventories were decreased $1,075,838 and the ratio of quick assets is more than four to one. Total current assets are $1,361,762 compared with $1,752,151 at the end of 1929.

L. & V. Flower, Ltd., 72 Finsbury Pavement, London, E. C. 2, have been appointed agents in England (for home and export trade) for the line of asbestos brake lining manufactured by Vereinigte Asbestwerke Danco-Wetzell and Co., A. G., Dortmund, Germany.

"Tektam" has been registered by Chemical Building Products, Ltd., 59, New Oxford Street, London, in connection with a design for electrical insulating substances of asbestos and mica.

The Glasgow Asbestos Company, Shuna, Glasgow, N. W. Scotland, completed their new plant in 1929 and now have one of the most complete and modern Asbestos works in that country. They specialize in the supply of Asbestos Yarn for Brake Lining and Engine Packing Manufacturers, Asbestos Cloth to

every specification, and for all purposes of packing, jointing and rubber manufacturers, and also asbestos millboard. They also make rubbered jointing, tape and moulded engine packings in customers own brands and to customers' samples, and make Metallic Packings suitable for Diesel Engines. Besides the buildings devoted to manufacturing purposes there are three welfare halls.

The Thermoid Company of Trenton, N. J., and wholly owned subsidiaries report for the year ended December 31, 1930, a profit of $380,765 after depreciation, interest, etc., but before federal taxes. No reserve is set up for federal taxes as company expects to file a single tax return consolidating operations of all subsidiaries, including Southern Asbestos Company.

Consolidated income account of Thermoid Co., and wholly owned subsidiaries for the year follows: Gross profit $1,582,360; expenses $925,463; operating profit, $656,897; other income $9,264; total income, $666,161; interest, $174,628; depreciation, $110,768; profit before federal taxes $380,765.

The profit of the Thermoid Company before federal taxes available for note interest and depreciation of $666,161, was more than 3¾ times interest requirements for the period. After interest and depreciation it had available for preferred dividends $380,765, which is 1.94 times actual preferred dividends paid and 1.72 times present maximum requirements. Dividends on preferred stock issued in the acquisition of Southern Asbestos Company and now outstanding amount to $221,116. After preferred dividends paid, there remained from operations $184,890, applicable to common stock, equivalent to more than 72 cents a share.

African Asbestos Trust, (Transvaal Africa). The Directors announce that owing to the market price of asbestos and the failure to raise further working capital for the installation of the main plant, they were reluctantly compelled to curtail operations at the mine as from January 1930, and finally suspend operations on May 31st. In view of this the Directors and the London Committee have agreed to waive their fees as from January 1st, 1930. The cost of administration has been reduced to a minimum. The property consists of asbestos rights on the Farm Kalkkloof, District Carolina, Transvaal. A total of £80,805 (including £22,750 spent in the past year) has been expended on the equipment and development of the property and on general expenditure. This according to the S. A. Mining & Engineering Journal.

The Nauga Asbestos Co., Ltd. At the annual meeting of this company the Chairman, A. G. Owen showed that the Company was, despite the times, in a flourishing position. All the blue asbestos produced by them is purchased under contract by the Cape Asbestos Company, Ltd. During the year two disintegrators, crushers and hoisting gear were installed, and the equipment was financed by an advance from the Cape Asbestos Company. 103 tons of fibre were produced. The Consulting Engineer, W. F. H. Dudgeon, in his annual report, says that the mine is opening up exceedingly promisingly. He urges the installation

of a small compressor plant to speed up development and the more rapid opening up of ore reserves.

Latex-Bonded Brake Lining Has Nearly Constant Coefficient of Friction and Does Not Swell," is the title of a paper written by John A. Lunn, Vice President of the Multibestos Company, and published in the February 21st issue of Automotive Industries.

Asbestos Corporation Limited. J. E. Triganne, General Sales Manager, and Capt. J. G. Ross, Mines Manager, have returned to Thetford after an extended trip to Europe.

United Insulation Co.—A correction. A wrong impression may have been created by the third paragraph of the article on page 18 of February "ASBESTOS". While the United Insulation Company are approved contractors for Keasbey & Mattison Company, so far as 85% Magnesia is concerned, they represent the Norristown Magnesia & Asbestos Company on low pressure and cold water insulation and all the cold water insulation on this Aetna job was furnished by the last named company.

The Pangani Mine, in the Filabusi District, Southern Rhodesia, which is owned by Australian interests is closed down with no prospect of opening for two or three years, according to the South African Mining & Engineering Journal.

The Board of Munnik Myburgh Asbestos (Kaapsche Hoop) Ltd. has decided temporarily to suspend operations at their mine at Kaapsche Hoop, this decision being arrived at owing to the fact that the bulk of the contracts now held by the Company are with Australian firms and owing to the state of the Australian Bank Exchange, it is almost impossible for those firms to arrange for credits in South Africa. As soon as the Australian situation gets easier the mine will restart. The recent additions to the mill and hauling plant are working satisfactorily and the mine is in a position to take full advantage of any revival in the asbestos trade. (Quoted from the Jan. 31st issue of the S. A. Mining & Engineering Journal).

"Asbestos in Russia," by Prof. Kovaloff, appears in the February 4th issue of The Mining & Industrial Magazine.

"Another Suggestion on Solving Hard to Heat Room Problems," an article appearing in the February 20th issue of Furnaces and Sheet Metals, gives suggestions for insulating the floors of attics, and thus keeping the heat in the second story rooms.

BUILDING STATISTICS

A turn for the better has been made by residential building, according to February figures released by the F. W. Dodge Corporation. Downhill for more than two years, this type of building, looked to by economists as the construction class to indicate a forward movement after depression, has shown the first turn with its February record. This first reversal since 1928 is found in a total of $77,917,800 in residential contracts awarded during February in the 37 states east of the Rockies.

A nearly equal division is made by the three major construction totals for February, a grand total of $235,405,000 being

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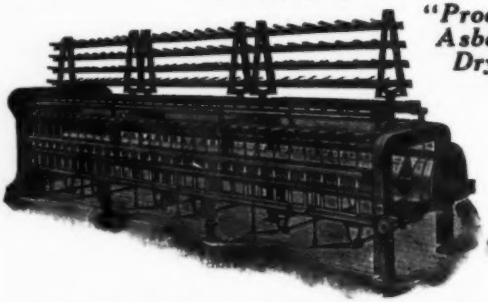

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WOVEN BRAKE LININGS
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GASKETS, SEAMLESS AND JOINTED
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broken into the $77,917,800 already mentioned as residential; $78,844,500 for non-residential; and $78,642,800 for public works and utilities.

PATENTS

Swivel Joint Packing. No. 1,784,926. Granted on December 16th, to George Christenson, North Plainfield, N. J., assignor to Johns-Manville Corporation. Filed July 25, 1927. Serial No. 298,072. Description upon request.

Friction Element. No. 1,785,701. Granted on December 16th, to Izador J. Novak, Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc. Filed June 20, 1928. Serial No. 287,046.

Described as the process of producing a friction material for a friction element, suitable for automobile brakes, clutches and the like, which comprises mixing together fibrous Asbestos and hardenable binder into a readily malleable mass with the fibres distributed thru the same, extruding the mass thru a suitable die, thereby producing a continuous unlaminated strip and the cross section desired, surface trowelled on all sides by the action of the die and with the fibres in the interior thereof running in substantially all directions, drying the product thereby producing a flexible, porous mass of somewhat greater thickness than that of the completed article, and compressing and hardening the same into a hard, dense article of the desired shape.

Method of making Brake Bands and the Like. No. 1,785,391. Granted on December 16th, to Thomas M. Russell, Middletown, Conn., assignor to Russell Mfg. Company. Filed November 26, 1926. Serial No. 150,787.

Described as the method of making brake bands and other articles of the class described, which consists in producing a strip of material comprising or including suitable indurating material, then condensing the strip by compression in the presence of heat, then relieving the strip of compression and while the strip is still warm and sufficiently pliable, bending the same into the required curved form of the desired brake band, or the like, and then allowing the article to cool and become permanently set in the said curved form.

Brake Band Lining Device. No. 1,785,076. Granted on December 16th, to Vladmir Freshkoff, New York. Filed August 1, 1929. Serial No. 382,275. Description upon request.

Brake Lining. No. 1,784,994. Granted on December 16th to Fred C. Morris, San Francisco, Cal. Filed October 5, 1928. Serial No. 310,471.

Described as in combination a brake lining provided with a supporting surface, a brake lining for said surface and a strip of material separating said lining from said surface, said strip comprising a relatively non-stretchable element and a resilient element integrally secured together.

Italy. Assignor to Johns-Manville Corporation, New York. Filed Nov. 12, 1924. Serial No. 749,556, and in Italy September 10, 1923.

Described as in a machine of the character described, the combinatoin of a rotary pipe forming cylinder and a pressure cylinder, cooperatively related thereto, means for supplying a plastic mixture to said pipe forming cylinder, a hydraulic press for imparting pressure to said pressure cylinders, and means under control of the pipe forming operation for controlling the pressure of the fluid supplied to said hydraulic press.

Display and Index Rack. No. 1,785,988. Granted on December 23rd, to Edward A. Sutcliffe, Oak Park, Ill., assignor to Victor Mfg. & Gasket Company. Filed April 22, 1929. A rack for displaying washers. Further description upon request.

Brake Lining Stretcher. No. 1,786,009. Granted on December 23rd, to John B. Tripp, Jr., Trenton, N. J. Filed February 6, 1929. Serial No. 337,906. Description upon request.

Gasket. No. 1,788,041. Granted on January 6th, to George T. Balfe, Detroit, Mich., assignor to Detroit Gasket & Mfg. Co., Detroit. Filed September 26, 1930. Serial No. 484,651.

Described as a gasket comprising layers of compressed closely compacted fibrous gasket material and a metal insert interposed there between, said insert having a plurality of closely associated projections formed thereon and extending laterally from opposite sides of the plane of the metal insert, said projections being imbedded by pressure a substantial distance, into the layers of fibrous gasket material and reinforcing the layers thruout their thickness and adhesive, water resistant material indirectly associated with the fibres of said layers for protecting the fibres and serving to hold the individual layers against disintegration and against separation from the insert under the action of heat pressure, water and gases, thereby maintaining the gasket material form and compact at and about the projections for protecting the metal insert and projections against exposure with resultant weakening and corrosion.

Packing or Gasket Material. No. 1. 789,114. Granted on January 13th, to Merritt T. Rhodes, Philadelphia. Filed October 9, 1928. Serial No. 311,421.

Described as flexible gasket material or sheet packing of great tensile strength, non-shrinkable, heat resisting and moisture and acid proof and consisting of asbestos paper devoid of inorganic filler and an admixture of glue and glycerin and formaldehyde, cured by heat, and the asbestos fibre remaining in the product substantially the same as in the asbestos paper and a flameproof coating of an admixture of casein, formaldehyde and phenol.

Gasket. No. 1,780,030. Granted on January 13th, to George T. Balfe, Detroit, Mich., assignor to Detroit Gasket & Mfg. Company. Filed September 15, 1930. Serial No. 482,099.

Described as a gasket comprising at least two layers of fibrous gasket forming material, and a reinforcing plate therebetween, having plane surfaces with a multiplicity of spaced, relatively small, closed protuberances extending laterally from each side of the plane with the complete protuberances on one side forming corresponding closed cavities on the opposite side, the said protuberances being embedded in the gasket material layers and the layers themselves embedded in said cavities to reinforce the layers thruout their thickness and barring passage of pressure thru the protuberances to the surface of the gasket, the said protuberances presenting an uninterrupted contact surface to the fibres of the gasket forming material and the gasket forming material being compressed about said protuberances.

Pipe Insulation. Granted on January 20th, to Edward F. Jones, San Francisco, Calif. Assignor to Philip Carey Mfg. Company. Filed June 14th, 1927. Serial No. 198,830.

In a pipe covering semi-cylinder members each provided with two longitudinal surfaces parallel to each other, arranged on an angle oblique to the circumference of the covering, so that when said members are assembled each cylinder is formed of two sections having a pair of longitudinal, parallel joints at an angle oblique to the circumference of the covering.

Clutch. No. 1,789,918. Granted on January 20th, to Edwin E. Waite, Framingham, Mass. Assignor one half to the Raybestos Company, Walpole, Mass. Filed January 19, 1928. Serial No. 247,773. Description upon request.

Spark Plug Gasket. No. 1,789,770. Granted on January 20th, to Frank J. Oven, Chicago, Ill. Assignor to Victor Mfg. & Gasket Co. Filed February 6th, 1939. Serial No. 337,857. Metal. Description upon request.

Spark Plug Gasket. Nos. 1,789,594-5. Granted on January 20th to Frank J. Oven, Chicago. Assignor to Victor Mfg. & Gasket Co. Filed January 21, 1929 and November 1, 1929 respectively. Serial Nos. 334,012 and 404,106. Metal. Description upon request.

Apparatus for Testing Automobile Brakes. No. 1,789,650. Granted on January 20th, to Leon L. Graham & Oscar S. Flood, Chicago, Ill. Assignor to Bendix-Cowdrey Brake Tester, Inc., South Bend, Ind. Filed August 18, 1923. Serial No. 658,001. Description upon request.

Friction Element and Method of Making Same. No. 1,790,176. Granted on January 27th to Frederick C. Stanley, Fairfield, Conn., assignor to Raybestos-Manhattan, Inc. Filed March 17, 1927. Serial No. 176,281.

Described as a friction element comprising a mixture of asbestos fibre, powered or granular graphite, in the proportion of from about 1% to about 5% by weight of the finished product, and powdered or granular lead in proportion of from about 1% to about 5% of weight of finished product, held together by a hardened binder.

THIS AND THAT

It is believed that Hiram N. Hanmore, inventor of 85% Magnesia Insulation, died in a hospital, or sanitarium, at Agnew, Calif., where is now located a modern 85% Magnesia Plant. Can anyone substantiate this with facts, particularly the date of Mr. Hanmore's death?

While on the subject of 85% Magnesia, we are informed that one Henry Millor (or Mueller) first conceived the idea of sectional covering and sold his idea or patent to H. W. Johns (forerunner of the Johns-Manville Corporation) for a large sum. It is also said that Millor's two sons were at one time local Johns' agents, one in Brooklyn and one the manager of the Johns' Philadelphia Office. Information on this subject is also desired.

The United States Asbestos Division of Raybestos-Manhattan, Inc., celebrates its silver anniversary this year, thus completing its twenty-fifth year of service to the Automotive Trade.

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A mining map of Southern Africa, published by Ingersoll-Rand, plainly marks the location of the various asbestos mines with their names.

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